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Zoological collectings by the Hungarian Natural History Museum in Korea 145. A report on the collectings of the twenty-third, twenty-fourth and twenty-fifth expeditions

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Abstract – A report on three zoological collecting trips to the Republic of Korea in 2003 and 2005 is given with a complete list of localities with comments.

Key words – South Korea, collecting trips, Mammalia, Lepidoptera, Diptera, Chilopoda, Diplopoda.

INTRODUCTION

This paper reports on three zoological collecting trips to the Republic of Korea (South Korea), which have been carried out by six researchers of the Hungarian Natural History Museum in 2003 and 2005. The aim of the trips was to collect several animal groups, including moths and butterflies (Lepidoptera), and flies (Diptera), other insect groups (such as Coleoptera, Hymenoptera, Heteroptera, Neuroptera, etc.), soil arthropods (Diplopoda, Chilopoda, Isopoda), and small mammals as well as their internal parasites. In two cases, the expeditions were hosted by the Kangwon National University (Chuncheon, Kangwon Province), especially by Professor KYU-TEK PARK, whereas in September–October, 2003, the collecting trip was carried out in Kyongsangbuk and Chungchongbuk Provinces. In August 2003 we mainly focused on the field work at various localities; however, we also had the chance to visit several collections and university departments, conducting intensive research on insects (Kangwon National University, Sangju National University, Yonsei University, National Institute of Agriculture Science and

Technology). In 2005, the two participants of the trip were invited as delegates to the 5th Asia–Pacific Congress of Entomology (APCE), held on Jeju Island, 18–21 October. In connection with this conference, interesting material of myriapods (Diplopoda and Chilopoda) was obtained in the lower region of Mt. Halla-san, but collectings around Chuncheon, Seoul, and Inchon (Mt. Mani-san) were also made.

LIST OF LOCALITIES

The numbering of the collecting list ended with No. 1735 in the previous list by CSORBA *et al.* (2004). However, the paper by MÉSZÁROS & ZOMBORI (1995) has, unfortunately, been omitted; hence their numbering from Nos 1701–1762 has become partly overlapped. Here we start our numbering with No. 1797, thus following the correct number by MÉSZÁROS & ZOMBORI (1995), plus the additional 35 collecting numbers by CSORBA *et al.* (2004). The list contains the following data for each collecting event: name of province, name of nearest settlement, locality name, geographical coordinates (Lat/Lon hddd°mm' in WGS 84 datum format), altitude above sea level (m), collecting date, information about the collecting method, and, finally, in parentheses, the names and collected specimen numbers of the identified species (mainly those of vertebrates).

Twenty-third expedition, Nos 1797–1813, 2003

Collectors: M. FÖLDVÁRI & A. KUN

- No. 1797. Kangwon Prov., Chuncheon-Dam, N 37°57' – E 127°39', 169 m, 26 August 2003. Collecting at light (Lepidoptera, Diptera).
- No. 1798. Kangwon Prov., Chuncheon, Kangwon National University, Campus, N 37°52' – E 127°44', 157 m, 26 August 2003. Swept along forest path (Diptera).
- No. 1799. Kangwon Prov., Inje, Hanam-ri, Army base, N 37°54' – E 128°16', 328 m, 28 August 2003. Daytime netting (Lepidoptera: *Caligula japonica* MOORE, 1862).
- No. 1800. Kangwon Prov., Chuncheon, Gumdae-ri, N 37°51' – E 127°47', 227 m, 28 August 2003. (Lepidoptera, Diptera).
- No. 1801. Kangwon Prov., Chuncheon, Kangwon National University, Campus, N 37°51' – E 127°44', 112 m, 29 August 2003. Swept along forest path (Diptera).
- No. 1802. Kangwon Prov., Chuncheon, Wolgok-ri, N 37°55' – E 127°47', 104 m, 29 August 2003. Collecting at light (Lepidoptera, Diptera).
- No. 1803. Kangwon Prov., Hwancheon, Heasan ryung, N 38°12' – E 127°54', 476 m, 30 August 2003. Collecting at light (Lepidoptera, Diptera).
- No. 1804. Kangwon Prov., Wonju, Yonsei University Campus, along forest path, N 36°40' – E 128°27', 186 m, 1 September 2003. Daytime collecting (Diptera, Lepidoptera).
- No. 1805. Kangwon Prov., Wonju, Mt. Dukga, N 37°14' – E 127°53', 368 m, 1 September 2003. Collecting at light (Lepidoptera, Diptera).
- No. 1806. Gyeonggi Prov., Sangju, Mt. Kapjang, N 36°21' – E 128°10', 324 m, 2 September 2003. Collecting at light (Lepidoptera, Diptera).
- No. 1807. Gyeonggi Prov., Sangju, Mt. Noak, N 36°25' – E 128°06', 165 m, 3 September 2003. Collecting at light (Lepidoptera, Diptera).

- No. 1808. Korea, Gyungbug Prov., Yecheon, Neungkol, N 36°40' – E 128°27', 186 m, 4 September 2003. Collecting by day, lake with rice plantation and forest (Diptera).
- No. 1809. Kangwon Prov., forest above K-Insect office, N 37°45' – E 127°22', 178 m, 5 September 2003. Collecting at light (Lepidoptera, Diptera).
- No. 1810. Kangwon Prov., Chuncheon, N 37°48' – E 127°45', 287 m, 6 September 2003. Brook and forest with chestnut (Diptera).
- No. 1811. Kangwon Prov., Wangsanmyeon, Kangreung city, N 37°37' – E 128°46', 662 m, 7 September 2003. Collecting at light on forest road near brook (Lepidoptera, Diptera).
- No. 1812. Kangwon Prov., Sochomyeon, Wonju, Haggok-ri, Chiak-san NP (Kuryong area), N 37°23' – E 128°03', 415 m, 8 September 2003. Swept along brook (Diptera).
- No. 1813. Kangwon Prov., Sochomyeon, Wonju, Haggok-ri, Chiak-san NP (Kuryong area), N 37°24' – E 128°02', 330 m, 8 September 2003. Collecting at light (Lepidoptera, Diptera).

Twenty-fourth expedition, Nos 1814–1872, 2003

Collectors: G. CSORBA, I. MATSKÁSI & F. MÉSZÁROS

- No. 1814–1816. Kyongsangbuk Prov., near Bukuli Village, N 36°41' – E 128°12', 200 m, 23 September 2003. Small mammals trapped along a creek (*Apodemus agrarius* (PALLAS, 1771): 2, *Crocidura shantungensis* MILLER, 1901: 1).
- No. 1817–1831. Kyongsangbuk Prov., near Bukuli Village, Su Cave, N 36°40' – E 128°12', 200 m, 23 September 2003. Bats, mist-netted at the entrance of the cave (*Rhinolophus ferrumequinum* (SCHREBER, 1774): 2, *Myotis bombinus* THOMAS, 1906: 1, *Myotis formosus* (HODGSON, 1835): 4, *Murina hilgendorfi* PETERS, 1880: 3, *Miniopterus schreibersii* (KUHL, 1817): 5).
- No. 1832. Kyongsangbuk Prov., Palgong Mts., Dong Hwa Sa, N 35°60' – E 128°42', 500 m, 25 September 2003. Collected at light (Lepidoptera).
- No. 1833. Kyongsangbuk Prov., Palgong Mts., Dong Hwa Sa, N 35°60' – E 128°42', 500 m, 25 September 2003. Singled invertebrates.
- No. 1834. Kyongsangbuk Prov., Palgong Mts., Dong Hwa Sa, N 35°60' – E 128°42', 500 m, 25 September 2003. Trapped small mammal (*Apodemus peninsulae* (THOMAS, 1907): 1).
- No. 1835–1837. South Korea, Kyongsangbuk Prov., Palgong Mts., Dong Hwa Sa, N 35°60' – E 128°42', 500 m, 25 September 2003. Bats, mist-netted in the secondary forest (*Murina hilgendorfi* PETERS, 1880: 1, *Pipistrellus abramus* (TEMMINCK, 1838): 2).
- No. 1838–1844. Kyongsangbuk Prov., near Mungyong, Uro Cave, N 36°40' – E 128°13', 400 m, 27 September 2003. Bats, mist-netted in front of the cave (*Myotis formosus* (HODGSON, 1835): 1, *Myotis bombinus* THOMAS, 1906: 2, *Rhinolophus ferrumequinum* (SCHREBER, 1774): 4).
- No. 1845. Kyongsangbuk Prov., near Mungyong, Uro Cave, N 36°40' – E 128°13', 400 m, 27 September 2003. Invertebrates and a newt singled around the cave.
- No. 1846–1850. Kyongsangbuk Prov., near Mungyong, N 36°40' – E 128°13', 400 m, 27 September 2003. Small mammals trapped at the edge of the secondary growth (*Apodemus agrarius* (PALLAS, 1771): 4, *Crocidura shantungensis* MILLER, 1901: 1).
- No. 1851. Kyongsangbuk Prov., near Mungyong, Hogye-hwantigi Cave, N 36°39' – E 128°10', 300 m, 28 September 2003. Invertebrates, captured in the cave.
- No. 1852–1867. Kyongsangbuk Prov., near Mungyong, Hogye-hwantigi Cave, N 36°39' – E 128°10', 300 m, 28 September 2003. Bats, mist-netted in front of the cave (*Myotis bombinus* THOMAS, 1906: 5, *Myotis macrodactylus* (TEMMINCK, 1840): 3, *Myotis frater* ALLEN, 1923: 1, *Myotis formosus* (HODGSON, 1835): 1, *Murina hilgendorfi* PETERS, 1880: 4, *Rhinolophus ferrumequinum* (SCHREBER, 1774): 2).

- No. 1868. Kyongsangbuk Prov., near Sangju, Namjangse, N 36°26' – E 128°07', 200 m, 30 September 2003. Invertebrates and frogs (*Hyla japonica* GÜNTHER, 1859) singled along a creek.
- No. 1869. Kyongsangbuk Prov., near Sangju, N 36°24' – E 128°07', 80 m, 30 September 2003. Invertebrates, singled around lamps at the shore of the Puk Chong River.
- No. 1870. Chungchongbuk Prov., Cheonju, Myeongnam-dong, 1 October 2003. Small mammal, trapped in front of the Myeongnam Park Hotel (*Apodemus agrarius* (PALLAS, 1771): 1).
- No. 1871. Chungchongbuk Prov., Cheonju, 2 October 2003. Rat, trapped at the Chungbuk University (*Rattus norvegicus* (BERKENHOUT, 1769): 1).
- No. 1872. Chungchongbuk Prov., Cheonju, Myeongnam-dong, 2 October 2003. Singled invertebrates. Mammal Collection inventory numbers: 20470–20521

Twenty-fifth expedition, Nos 1873–1887, 2005

Collectors: Z. KORSÓS & A. KUN

- No. 1873. Kangwon Prov., Chuncheon, N 37°52' – E 127°45', 110 m, 14 October 2005. Singled in a building (Chilopoda: Scutigeromorpha, Lepidoptera).
- No. 1874. Kangwon Prov., Bongyeong-ri, Kangwon Nat. Univ. Exp. Forest Station, N 37°46' – E 127°48', 230 m, 15 October 2005. UV light, bait trap, and singled in soil litter (Diplopoda, Chilopoda, Lepidoptera).
- No. 1875. Kangwon Prov., Jiam-ri, N 37°57' – E 127°38', 291 m, 16 October 2005. UV light, bait trap (Diplopoda, Chilopoda, Lepidoptera).
- No. 1876. Jeju Isl., Jeju-si City, N 33°31' – E 126°31', 0 m, 18 October 2005. Singled at the seashore (Isopoda).
- No. 1877. Jeju Isl., Hanhwa, N 33°26' – E 126°37', 436 m, 19 October 2005. Singled in soil litter and forest floor (Diplopoda, Chilopoda, Coleoptera, Lepidoptera).
- No. 1878. Jeju Isl., Halla-san Nat. Park, Eorimok, N 33°23' – E 126°29', 957 m, broad-leaved forest, 20 October 2005. Singled in soil litter (Diplopoda, Chilopoda).
- No. 1879. Jeju Isl., Halla-san Nat. Park, 1100 meter Resting Area, N 33°21' – E 126°27', 1100 m a.s.l., broad-leaved forest, 20 October 2005. Singled in soil litter (Diplopoda, Chilopoda).
- No. 1880. Jeju Isl., Halla-san Nat. Park, Yeongsil, N 33°20' – E 126°28', 1028 m, broad-leaved forest, 20 October 2005. Singled in soil litter (Diplopoda, Chilopoda).
- No. 1881. Jeju Isl., Halla-san Nat. Park, Seongpanak, N 33°23' – E 126°37', 764 m, broad-leaved forest, 20 October 2005. Singled in soil litter (Diplopoda, Chilopoda).
- No. 1882. Jeju Isl., Halla-san Nat. Park, Gwaneumsa, N 33°26' – E 126°33', 980 m, disturbed pine forest, 20 October 2005. Pitfall traps (Diplopoda, Chilopoda, Coleoptera).
- No. 1883. Seoul, Irwon-dong, Mt. Daemo, N 37°28' – E 127°05', 50 m, 23 October 2005. Singled in soil litter (Diplopoda, Chilopoda).
- No. 1884. Kangwon Prov., Bongyeong-ri, Kangwon Nat. Univ. Exp. Forest Station, N 37°46' – E 127°48', 230 m, 24 October 2005. UV light, bait trap (Diplopoda, Chilopoda, Lepidoptera).
- No. 1885. Kangwon Prov., Gangchon, N 37°48' – E 127°38', 100 m, broad-leaved forest, 25 October 2005. UV light, bait trap (Diplopoda, Chilopoda, Lepidoptera).
- No. 1886. Kangwon Prov., Gapyeong, K-Insect, N 37°45' – E 127°22', 124 m, 26 October 2005. UV light, bait trap (Diplopoda, Chilopoda, Coleoptera, Lepidoptera).
- No. 1887. Inchon, Mani-san, N 37°37' – E 126°25', 45 m, 29 October 2005. Singled in soil litter (Diplopoda, Chilopoda).

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